

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraphs on page 17, lines 4-21, as follows:

Figure 4 shows a computer implemented flow chart for using a design system to automatically generate source code for both parameterization and personalization of a user module ~~module~~. In step 450, the user selects the desired functions in the form of user modules. Generally, a user module can be viewed as an integrated circuit design, e.g., an amplifier, a counter, a timer, a modem, etc. The user can select multiple instances of the same type of user module. In step 460, the user assigns blocks to a user module, e.g., "places" the user module. This step is repeated for each user module selected in step 450. In step 470, after assigning blocks, the design system then can automatically generate the assembly code for configuring the actual blocks.

More specifically, a user module is the collection of information necessary to implement a particular function using one or more generic blocks. This would include the specific values that need to be loaded into a block's registers to implement the circuit design. The design system can load the information about user modules from a file when the design system is initialized. In one embodiment, the information necessary to represent a user module is formatted ~~formatted~~ using XML data.